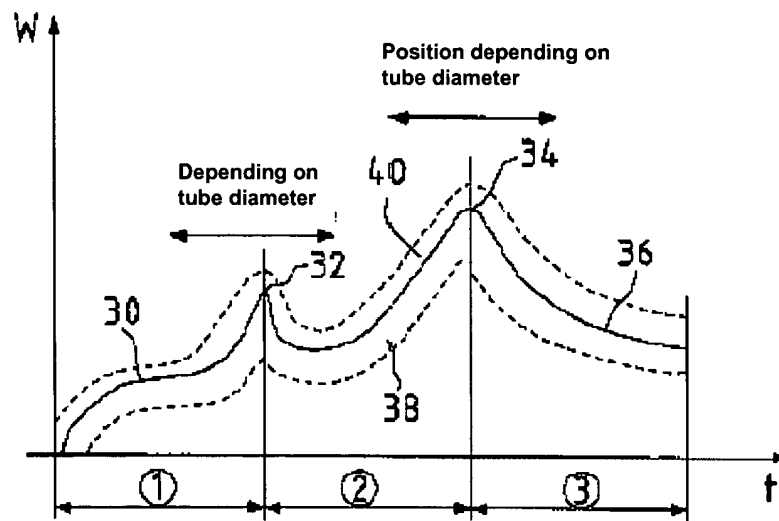


Fig.1

Fig. 2



- Phase 1 recognize tube diameter
- Phase 2 recognize wall thickness
- Phase 3 (final)- welding